Offering Deep Training on Solar Energy

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Corporate Office: Kolkata
Project Office: Noida

Need for a Comprehensive Training Program on Solar Energy

❑ **Hands-On Experience:**

- Engage in practical workshops to design, install, and maintain solar power systems.
- Work on real-world projects to solidify your learning.

❑ **Project Feasibility Skills**

- Learn to conduct comprehensive feasibility studies for solar projects.
- Master financial modeling techniques to evaluate project viability.

❑ **Regulatory and Policy Insights**

- Understand the regulatory landscape governing solar energy in various regions.
- Explore incentives and subsidies available for solar energy projects.

❑ **Stay Ahead with Technology:**

- Explore cutting-edge solar technologies, including photovoltaic systems and energy storage solutions.
- Understand emerging trends such as smart grids and solar integration.

❑ **Career and Entrepreneurship Opportunities**

- Discover exciting career opportunities in the solar energy sector and explore sustainable business ventures that contribute to a greener future.

Course Learning Outcome

- **Master Solar Power System Design and Installation**
  - Acquire essential knowledge and practical skills to effectively design and install solar power systems, including monocrystalline, polycrystalline, and thin-film solar modules.
- **Become an Expert in Troubleshooting and Maintenance**
  - Develop proficiency in diagnosing issues and performing maintenance on various solar energy systems, ensuring optimal performance and longevity.
- **Navigate Regulatory Frameworks and Financial Incentives**
  - Gain a comprehensive understanding of the regulatory landscape governing solar energy, including key financial incentives such as tax credits, rebates, and grants that promote solar adoption.
- **Evaluate Technical and Economic Viability of Solar Projects**
  - Learn to assess both the technical specifications and economic feasibility of solar projects by analyzing performance metrics like I-V curves, maximum power points, and efficiency ratings of different module types.
- **Conduct Financial Modeling for Solar Projects**
  - Develop skills in financial modeling to evaluate solar project viability using key metrics such as, NPV, IRR and Pay-back period

Course Content

Module	Duration	Key Topics
Introduction to Solar Energy	4 hours	Solar energy fundamentals, GHI, DNI
Photovoltaic Technology	8 hours	Current and future PV technologies
Solar PV Projects & Components	4 hours	Types of projects, equipment analysis
Design of Solar System	16 hours	Capacity determination, site survey
Energy Economics	8 hours	Economic feasibility assessment
Energy Management	8 hours	Power Cost Analysis
Negotiation on PPA and Tariffs and other Energy Management Contract	8 hours	PPA terms negotiation
Energy Trade, Cross Border Opportunities, Emerging Energy Market	8 hours	Energy Trade Evolution

Instructional Support

- **Training Materials:** Soft copy (PDF) and hard copy (printed notes) will be shared before the training session to facilitate effective learning.
- **Assessment Procedures:** Assessment criteria will be announced in advance, and participants will receive certification based on their performance and marks obtained.
- **Expert Trainers:** Expert trainers with decades of experience will deliver hands-on training, ensuring participants gain practical insights and knowledge.
- **Recorded Sessions:** Each training session will be recorded, and the recordings will be shared with participants for future reference and review.
- **Interactive Workshops:** Engage in interactive workshops that allow participants to apply concepts learned in real-world scenarios, enhancing practical understanding.
- **Supplementary Resources:** Access additional resources such as articles, case studies, and research papers to deepen understanding of solar energy concepts.
- **Q&A Sessions:** Dedicated question-and-answer sessions will be held to address participant queries and clarify complex topics discussed during the training.
- **Post-Training Support:** Access ongoing support after the training, including mentorship opportunities and forums for discussing challenges and sharing experiences in the solar energy field.

Credential

- This course has been jointly delivered with NTPC School of Business on behalf of ISA (International Solar Alliance) in Bangladesh
- This course has been jointly delivered with NTPC School of Business to NSPCL (NTPC-SAIL Power Company Limited)
- A partial course has been jointly delivered with NTPC School of Business on behalf of ISA (International Solar Alliance) in Saudi Arabia

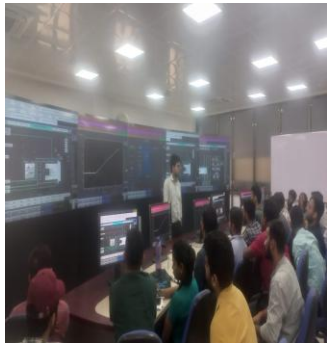
A Few Experiences

For NEEPCO

Detailed Project Report of 52 MWp Floating Solar on behalf of NTPC, School of Business

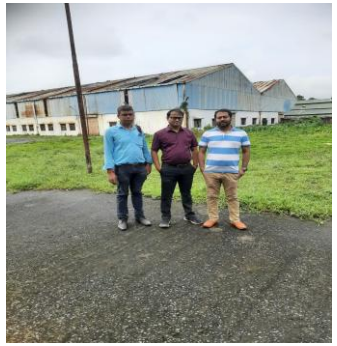
For IFC Project

Solar PV Market size estimation of MSMEs in Bihar and Uttar Pradesh



For NPTI, Faridabad

Detailed Project Report of CoE for Hydro Power Infrastructure on Behalf of NSB.



For NVR PANACEA

Detailed Project Report on Vehicle Scrapping Centre

For Gangwal Engineering

Detailed Design of 3 Stages Solar Pump Driven Water Supply at Mizoram – from 700 M River Bed

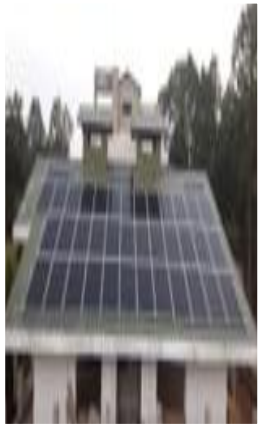
A Few More Experiences…

For UNDP

Assessment of Solar Energy Feasibility at 100 numbers of Solar Cold Storage and 200 numbers of PHE , Nagaland

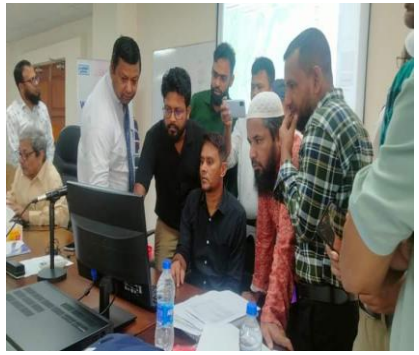
For World Bank Project

Carried out feasibility study of solar plant on behalf of TUV for World Bank at DVC, Chandrapura and Rourkela



For Palash blossom

Implementation of Sustainable actions at Eco – Tourism by Solar Drier and Solar Plant



For Bangladesh Rural Electricity Board

Deep Training on Solar Rooftop and Mini Grid

For Ramkrishna Mission (Hatamuniguda)

Renovated and Modernized existing Kitchen with Steam Cooking arrangement etc. as a sustainable measure.

A Few List of Clients

PALASH BLOSSOM ESTATE

NEW IDEAS FOR A NEW AGE

UNDP

NTPC School of Business

एनटीपीसी NTPC

A Maharatna Company

नीपको NEEPCO

TÜV SÜD ISO 9001

एन पी टी आई NPTI प्रावीण्यं परोपवृत्तिश्च

SunCraft Energy

We Deliver Beautiful Energy

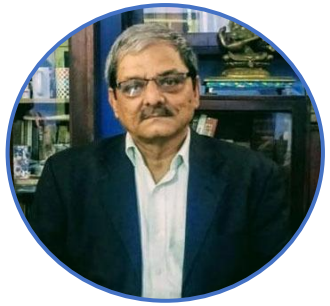
RAMAKRISHNA MISSION

तमसो मा ज्योतिर्गमय

Team

Rabin Roy
CEO and Founder
B.Tech, and MBA (IIT KGP)
Experience: More than 20 years

Avijit Jana
Director
B.E (JU), M.Tech (ISI), MBA (IIT KGP)
Experience: More than 25 years



Anjan Ghosh
Director
B.Tech (IIT KGP), MBA (XLRI)
Experience : About 40 years

Dr. Bipul Saha , IIT Kharagpur
Chief Research Officer
10 Years (Energy, Waste Heat and Sustainability)

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Thank you